

Date: Sat, 10 Sep 94 04:30:16 PDT  
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>  
Errors-To: Ham-Ant-Errors@UCSD.Edu  
Reply-To: Ham-Ant@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Ant Digest V94 #303  
To: Ham-Ant

Ham-Ant Digest                      Sat, 10 Sep 94                      Volume 94 : Issue    303

Today's Topics:

    300ohm twinlead, outdoors? (4 msgs)  
    cell phone directional antenna? (2 msgs)  
    Coaxial into the House (2 msgs)  
    Info on Autek SWR/Z/L/C Meter (2 msgs)  
    Please Help: Putting a Mobile Antenna on my House  
    SETIQuest Magazine - Exobiology  
    Two Beverages - Revisited  
    UK source for ELNEC ?

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>  
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Thu, 8 Sep 94 19:07:53 GMT  
From: ihnp4.ucsd.edu!ucsnews!newshub.sdsu.edu!nic-nac.CSU.net!  
charnel.ecst.csuchico.edu!yeshua.marcam.com!news.kei.com!ub!  
galileo.cc.rochester.edu!uhura.cc.rochester.edu!rdewan@network.ucsd.edu  
Subject: 300ohm twinlead, outdoors?  
To: ham-ant@ucsd.edu

In article <1056FYRXEOYSTTBVFV@slacc.com> nf0r@slacc.com writes:

>

>Hi Rich! What you might consider is fabricating your own twin-lead from  
>two identical lengths of coax, RG-58 is fine. Ground the shields at the  
>tuner end but let them float at the feedpoint to avoid a groundloop.  
>This will give you the necessary environmental protection for several  
>years. I live in a townhouse and use this method to feed my attic  
>antenna from a basement shack. BTW, the feedline does not have to be

>taped together, each side can find it's own path to the antenna as long  
>as the individual lengths are identical. Also, you can use any  
>impedance, 50, 75 or 300ohms makes no difference. Good luck! NF0R, Dave

Interesting suggestion. I am curious about a couple of points:

- \* If you do not run them together, and if the only currents are in the center conductors of the two coax, then the range over which the feedline will couple with other conductive objects will be large. This would imply a larger chance of RFI.
- \* If there are currents on the shield of the wires, as would be my guess, then you will again have rfi, unpredictable load impedance and a distorted radiation pattern.

My guess would be that make this work, you would have to take the same degree of care with its layout and symmetry as you would with simple old 12 swg wire. Why spend the money on expensive coax to simulate a plain ole simple open line?

Rajiv  
aa9ch/2

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Date: Sat, 3 Sep 1994 17:31:50 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!swrinde!  
elroy.jpl.nasa.gov!wvus!pelican!ent-img.com!wb6hqq!bart@network.ucsd.edu  
Subject: 300ohm twinlead, outdoors?  
To: ham-ant@ucsd.edu

In article <CvI4qM.po@vectorbd.com>, <rkm@vectorbd.com> wrote:

>Hi All:

>

> A quick question: I'm thinking of putting up a dipole, fed with  
>300ohm TV twin-lead, and routed through a transmatch to my QRP rig.  
>Since I live in an apartment, I'll have to bury the twin-lead to avoid  
>having the maintenance people run over it with the lawnmower, etc. :-)

I hope this really is a joke! The property which makes twinlead very low attenuation is that the majority of the fields are in the essentially lossless air outside the lossy plastic dielectric. The price you pay is the requirement that the line be run at least a couple of inches away from anything, especially conductors. Don't bury it!!! Coax may have more loss but since the fields are completely contained within the outer conductor of the cable it may be buried and run next to metal objects. Even the best normally available is quite a bit lossier at HF than good quality twinlead but if you can keep the SWR reasonably low you should get good results. Can you arrange a trap dipole?

bart

bart@wb6hqk.ampr.org

-----  
Date: 9 Sep 1994 07:41:04 -0400  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!spool.mu.edu!howland.reston.ans.net!  
swiss.ans.net!newstf01.cr1.aol.com!search01.news.aol.com!not-for-  
mail@network.ucsd.edu  
Subject: 300ohm twinlead, outdoors?  
To: ham-ant@ucsd.edu

In article <1056FYRXE0YSTTBVFV@slacc.com>, nf0r@slacc.com writes:

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Hi dave, any idea of the charachteristic impedance obtained? I've read  
about this before, and it seems pretty interesting. I've got some old  
aircore 90 ohm (?) coax I might try this with--it's cheap (free) and i've  
got enough of it.

72, jim n0oct

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Date: Fri, 9 Sep 1994 14:59:06 GMT  
From: ihnp4.ucsd.edu!pacbell.com!sgiblab!swrinde!howland.reston.ans.net!  
vixen.cso.uiuc.edu!newsfeed.ksu.ksu.edu!moe.ksu.ksu.edu!osuunx.ucc.okstate.edu!  
master.ceat.okstate.edu!gcouger@network.  
Subject: 300ohm twinlead, outdoors?  
To: ham-ant@ucsd.edu

In article <34phkg\$n4p@search01.news.aol.com>,

JimN00CT <jimn0oct@aol.com> wrote:

>In article <1056FYRXE0YSTTBVF@slacc.com>, nf0r@slacc.com writes:

>

>

>-----  
>-----

>Hi Rich! What you might consider is fabricating your own twin-lead from  
>two identical lengths of coax, RG-58 is fine. Ground the shields at the  
>taped together, each side can find it's own path to the antenna as long  
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>Hi dave, any idea of the characteristic impedance obtained? I've read  
>about this before, and it seems pretty interesting. I've got some old  
>aircore 90 ohm (?) coax I might try this with--it's cheap (free) and i've  
>got enough of it.

The impedance is twice the impedance of the coax and the loss is unchanged.  
So only used the doubled feed line where you must and get back to  
twin lead as soon as you can. Probably the only advantage in using coax  
twin lead is the increase in puncture voltage.

I used to have a zep made up out of coax twin lead and it worked pretty  
good.

Good luck

Gordon AB5DG

Gordon Cougar senior software specialist

Biosystems & Agricultural Engineering. 114 AG Hall Stillwater, OK 74075  
gcouger@olesun.agen.okstate.edu 405 744 9763 day 625-2855 evenings

-----  
Date: 9 Sep 1994 17:18:15 GMT

From: ihnp4.ucsd.edu!pacbell.com!sgiblab!spool.mu.edu!torn!news.unb.ca!

nbt.nbnet.nb.ca!nbcc1.nbnet.nb.ca!user@network.ucsd.edu

Subject: cell phone directional antenna?

To: ham-ant@ucsd.edu

I am in a very fringe area for cell phone use.

Although I can hit 2M repeaters further away (with 5W) my 3W bag phone used  
at home is just shy of holding the tower.

Does anyone have plans for a homebuilt directional cell antenna?

Thanks,

Steve Patriquen  
VE9 PIX

-----  
Date: Fri, 9 Sep 94 15:10:48 -0500  
From: news.delphi.com!usenet@uunet.uu.net  
Subject: cell phone directional antenna?  
To: ham-ant@ucsd.edu

Steve Patriquen <nbccpix@nbnet.nb.ca> writes:

>I am in a very fringe area for cell phone use.  
>  
>Although I can hit 2M repeaters further away (with 5W) my 3W bag phone used  
>at home is just shy of holding the tower.  
>  
>Does anyone have plans for a homebuilt directional cell antenna?

Perhaps a dumb question. Why not use a land line telephone at home?

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Date: Fri, 9 Sep 1994 18:07:43 GMT  
From: ihnp4.ucsd.edu!pacbell.com!sgiblab!spool.mu.edu!howland.reston.ans.net!usc!  
nic-nac.CSU.net!charnel.ecst.csuchico.edu!csusac!zimmer!zimmer.csufresno.edu!  
rafaels@network.ucsd.edu  
Subject: Coaxial into the House  
To: ham-ant@ucsd.edu

Well, I finally bought a 2 mt. external antenna which I already installed. I live in a fairly new house whose (outside) walls are covered with stucco (sp?). All windows have aluminum frames. Before I start drilling the stucco and/or the windows' frames I thought in asking to you'all about feeding coaxial through the walls and/or windows. Please send me a line or two.

73 de Rafael, KE6JSR

PS: Also I would like to split the cable into two endings (one for the radio shack and one for my bedroom). Where should I put the splitter? Inside the house, or, close to the antenna? Does it matter?

\*\*\*\*\*  
Rafael Solis, Professor      Craig School of Business  
rafaels@zimmer.csufresno.edu      California State University, Fresno  
(209)278-2194      (209)278-4911 (Fax)

\*\*\*\*\*

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Date: Fri, 9 Sep 1994 19:21:55 GMT  
From: wang!dbushong@uunet.uu.net  
Subject: Coaxial into the House  
To: ham-ant@ucsd.edu

rafaels@zimmer.csufresno.edu (Rafael Solis) writes:

>PS: Also I would like to split the cable into two endings (one for the radio  
>shack and one for my bedroom). Where should I put the splitter? Inside the  
>house, or, close to the antenna? Does it matter?

Are you talking about using this antenna for transmitting, or just for  
use with a scanner? You cannot use a "splitter" like the kind TVs use  
if you are going to transmit. You can use something like an "A/B"  
switch, though.

Dave, KZ10

--

Dave Bushong  
OPEN/image Recognition Products

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Date: 8 Sep 1994 17:28:35 GMT  
From: nntp.crl.com!jeffj@decwrl.dec.com  
Subject: Info on Autek SWR/Z/L/C Meter  
To: ham-ant@ucsd.edu

Lou Genco (lgenco@crl.com) wrote:  
: In article <33997@uswnvg.uswnvg.com>,  
: jdonimi@uswnvg.com (Jeremy A. Donimirski) wrote:

: > Does anyone own one of these Autek meters? If so, do you like it? How well  
: > do the various functions work? Is it convenient to use?  
Can you use this unit also as a frequency meter?

--

jeffj@crl.com |  
AB6MB | PEOPLE BEFORE PROFITS!!!!!!  
|



Subject: SETIQuest Magazine - Exobiology  
To: ham-ant@ucsd.edu

SETIQuest is a new quarterly print/electronic mail (E-mail) periodical containing news, technical information, and tutorials devoted to bioastronomy and its subset, SETI (Search for Extraterrestrial Intelligence).

SETIQuest is published for professionals, serious amateur astronomers, and individuals curious about this fascinating field of observation. SETIQuest fills the need for a specialized astronomical publication devoted exclusively to the on-going search for evidence of life in the Universe. Such evidence could be intentional or inadvertent signals of other civilizations. Such evidence could be found in spectral signatures of biological activity on extrasolar planets or in the interstellar medium.

SETIQuest is written and edited for the scientifically literate individual taking part in the progress of our technological civilization, with articles by amateur and professional scientists. SETIQuest includes information about hands-on observational programs that can be carried out by individuals and groups of amateur astronomers at radio and optical wavelengths.

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- \* Microwave or optical SETI as practiced by amateurs
- \* "Do-it-yourself" participation in bioastronomy and SETI activities
- \* Book reviews
- \* Regular commentary on issues relevant to SETI and bioastronomy:

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Philosophical issues regarding the prospects of success and failure in the search

SETI as a parable of science versus pseudo science

Publications Watch: Summaries of recent scientific/general publications relevant to SETI

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Internet E-mail: SQINQNET@pixelacres.mv.com

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Carl Helmers, President & Editorial Director, Helmers Publishing, Inc.  
--< Publishers of Sensors, ID Systems and SETIQuest magazines >--  
(what else do you do after starting BYTE?)  
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SNAILMAIL: 174 Concord Street, Peterborough, NH 03458  
PHONE: 603-924-9631 -- FAX: 603-924-7408

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Date: 8 Sep 1994 19:44:06 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!math.ohio-  
state.edu!sdd.hp.com!col.hp.com!fc.hp.com!jayk@network.ucsd.edu  
Subject: Two Beverages - Revisited  
To: ham-ant@ucsd.edu

Waltk@pica.army.mil wrote:  
: .....request for help w/a newly erected 2 wire Beverage.

: Has anyone used a termination at the far end that consists of a  
: transformer as per Mizek's book on the subject? If so, could  
: you share your experiences with me. Do you find the antenna  
: as good as a terminated single-wire antenna. My experience has  
: been (subjective) that the 2 wire doesn't perform as well in  
: either direction as a single wire resistor terminated affair.

: 73 de Walt Kornienko - K2WK

I tried one a few years ago. I have a copy of Mizek's book and made the  
transformer as described. The beverage seemed to hear well but the front-  
to-back wasn't very good. When you talk to ops who have tried a two wire  
beverage it seems about half think they are great and half didn't have  
much luck.

73, Jay K0GU jayk@fc.hp.com

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Date: Thu, 8 Sep 1994 10:01:41  
From: agate!doc.ic.ac.uk!cs.city.ac.uk!city!pcmail.nerc-bas.ac.uk!mcro@ames.arpa  
Subject: UK source for ELNEC ?  
To: ham-ant@ucsd.edu

Does anybody know of a UK distributor for the ELNEC program ?

Cheers Mike

Mike Rose British Antarctic Survey MCRO@PCMAIL.NERC-BAS.AC.UK

(Yes it is cold and no there are no polar bears)

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Date: Fri, 9 Sep 1994 13:53:17 GMT

From: ihnp4.ucsd.edu!dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!  
gatech!concert!hearst.acc.Virginia.EDU!cscsun!dtiller@network.ucsd.edu

To: ham-ant@ucsd.edu

References <Cv3rCE.A65@ncrcae.ColumbiaSC.NCR.COM>, <325@coutts.UUCP>,  
<CSLE87-010994183249@145.39.1.10>sun

Subject : Re: Lightning

Karl Beckman (CSLE87@email.mot.com) wrote:

: In article <325@coutts.UUCP>, ww@coutts.UUCP (Warren Gay) wrote:

: >

: > When I last moved, I put 110VAC relays in a power distribution box for

: > this purpose. The relay switches via heavy duty contacts, 3 lines -

: > 2 - 110VAC + 1 Neutral. This of course switches the 220VAC for my

: > linear (that I don't have yet) in the process. The relay was one of

: > two lucky finds at a ham-fest.

: >

: It's a good thing that you are located in Canada, but not safe. Here in

: the USA you are not permitted to ever interrupt the neutral lead, since it

: is the grounded side (center, actually) of the feed.

Tell that to my water pump - the control box that came with it opens both  
power-carrying conductors (not the ground, naturally). There are exceptions  
to every absolute rule, apparently. I can't remember specifically, but there  
are reasons to open the neutral. (I'll check the NEC).

--

David Tiller	Network Administrator	Voice: (804) 752-3710	
dtiller@rmc.edu   n2kau/4	Randolph-Macon College	Fax: (804) 752-7231	
Brady Law critique removed	P.O. Box 5005	ICBM: 37d 42' 43.75" N	
due to liberal PC pressure.	Ashland, Va 23005	77d 31' 32.19" W	

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End of Ham-Ant Digest V94 #303

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